

```
C:\Users\Abdul-Aziz Tahil>docker images
```

| REPOSITORY | TAG | IMAGE ID | CREATED | SIZE |
|-------------|--------|--------------|---------------|-------|
| delner/ping | latest | 8332599b3e9c | 8 minutes ago | 170MB |
| ubuntu | 16.04 | 9ff95a467e45 | 3 weeks ago | 135MB |

---START OF EXERCISE 3---

```
C:\Users\Abdul-Aziz Tahil>docker rmi 833
```

```
Untagged: delner/ping:latest
```

```
Deleted: sha256:8332599b3e9c3965ddc6aef30b3c8e1bf348e105b2b2cfb294b251e21bab6d9b
```

```
Deleted: sha256:535f0e989c22cbd756ff93554e91feda8e802aeecc55d26837ff710e3fd51ab8f
```

```
C:\Users\Abdul-Aziz Tahil>touch Dockerfile
```

```
'touch' is not recognized as an internal or external command,  
operable program or batch file.
```

```
C:\Users\Abdul-Aziz Tahil>npm install touch-cli -g
```

```
'npm' is not recognized as an internal or external command,  
operable program or batch file.
```

```
C:\Users\Abdul-Aziz Tahil>_
```

Encountered problems with touch command.

Microsoft Windows [Version 10.0.19042.985]
(c) Microsoft Corporation. All rights reserved.

```
C:\Users\Abdul-Aziz Tahil>npm install touch-cli -g
'npm' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Abdul-Aziz Tahil>npm
'npm' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Abdul-Aziz Tahil>npm
npm notice
npm notice New minor version of npm available! 7.15.1 -> 7.16.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v7.16.0
npm notice Run npm install -g npm@7.16.0 to update!
npm notice
npm <command>
```

Usage:

```
npm install      install all the dependencies in your project
npm install <foo> add the <foo> dependency to your project
npm test         run this project's tests
npm run <foo>    run the script named <foo>
npm <command> -h quick help on <command>
npm -l           display usage info for all commands
npm help <term>  search for help on <term> (in a browser)
npm help npm     more involved overview (in a browser)
```

All commands:

```
access, adduser, audit, bin, bugs, cache, ci, completion,
config, dedupe, deprecate, diff, dist-tag, docs, doctor,
edit, exec, explain, explore, find-dupes, fund, get, help,
hook, init, install, install-ci-test, install-test, link,
ll, login, logout, ls, org, outdated, owner, pack, ping,
prefix, profile, prune, publish, rebuild, repo, restart,
root, run-script, search, set, set-script, shrinkwrap, star,
stars, start, stop, team, test, token, uninstall, unpublish,
unstar, update, version, view, whoami
```

Specify configs in the ini-formatted file:

```
C:\Users\Abdul-Aziz Tahil\.npmrc
```

or on the command line via: npm <command> --key=value

More configuration info: npm help config

Configuration fields: npm help 7 config

```
npm@7.15.1 C:\Program Files\nodejs\node_modules\npm
```

**Installed node.js to run npm and install
"touch command" to no avail.**

```
Command Prompt
npm notice
npm notice New minor version of npm available! 7.15.1 -> 7.16.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v7.16.0
npm notice Run npm install -g npm@7.16.0 to update!
npm notice
```

```
C:\Users\Abdul-Aziz Tahil>'npm' is not recognized as an internal or external command,
''npm'' is not recognized as an internal or external command,
operable program or batch file.
```

```
C:\Users\Abdul-Aziz Tahil>npm install touch-cli -g
```

```
added 2 packages, and audited 3 packages in 3s
```

```
found 0 vulnerabilities
```

```
C:\Users\Abdul-Aziz Tahil>touch Dockerfile
'touch' is not recognized as an internal or external command,
operable program or batch file.
```

```
C:\Users\Abdul-Aziz Tahil>null > Dockerfile
'null' is not recognized as an internal or external command,
operable program or batch file.
```

```
C:\Users\Abdul-Aziz Tahil>$null > Dockerfile
'$null' is not recognized as an internal or external command,
operable program or batch file.
```

```
C:\Users\Abdul-Aziz Tahil>touch test.html
'touch' is not recognized as an internal or external command,
operable program or batch file.
```

```
C:\Users\Abdul-Aziz Tahil>npm install touch-cli -g
```

```
changed 2 packages, and audited 3 packages in 2s
```

```
found 0 vulnerabilities
```

```
C:\Users\Abdul-Aziz Tahil>touch Dockerfile
'touch' is not recognized as an internal or external command,
operable program or batch file.
```

Touch command still not working even after installation. Found out that call command works on Windows.

```
[+] Building 1.4s (2/2) FINISHED
=> [internal] load .dockerignore                                0.8s
=> => transferring context: 2B                                  0.3s
=> [internal] load build definition from Dockerfile             0.9s
=> => transferring dockerfile: 31B                               0.2s
failed to solve with frontend dockerfile.v0: failed to create LLB definition: the Dockerfile cannot be empty
C:\Users\Abdul-Aziz Tahil>docker build -t 'delner/ping' .
```

```
[+1 Building 0.3s (2/2) FINISHED
```

```
Command Prompt
=> ERROR [internal] load build definition from Dockerfile
=> => transferring dockerfile: 67B
=> ERROR [internal] load .dockerignore
=> => transferring context: 67B
-----
> [internal] load build definition from Dockerfile:
-----
> [internal] load .dockerignore:
-----
failed to solve with frontend dockerfile.v0: failed to read dockerfile: error from sender: walk Dockerfile.txt: The system cannot find the path specified.

C:\Users\Abdul-Aziz Tahil>call > Dockerfile

C:\Users\Abdul-Aziz Tahil>docker build -t 'delner/ping' .
invalid argument "'delner/ping'" for "-t, --tag" flag: invalid reference format
See 'docker build --help'.
```

Made two different instances of Dockerfile: Dockerfile and Dockerfile.txt, causing an error.

Another error was I used ' ' instead of " ".

```
C:\Users\Abdul-Aziz Tahil>docker build -t "delner/ping" .
[+] Building 105.9s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 143B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/ubuntu:16.04
=> [1/3] FROM docker.io/library/ubuntu:16.04
=> [2/3] RUN apt-get update
=> [3/3] RUN apt-get install -y iputils-ping
=> exporting to image
=> => exporting layers
=> => writing image sha256:070e098a9db0bcd5e52995a910d6c8a5732bfe23343cb54c1d891f533d42e904
=> => naming to docker.io/delner/ping

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
```

```
C:\Users\Abdul-Aziz Tahil>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
delner/ping    latest    070e098a9db0   15 seconds ago 170MB
ubuntu        16.04     9ff95a467e45   3 weeks ago   135MB
```

```
C:\Users\Abdul-Aziz Tahil>docker build -t "delner/ping" .
[+] Building 1.6s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 277B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/ubuntu:16.04
=> [1/4] FROM docker.io/library/ubuntu:16.04
=> CACHED [2/4] RUN apt-get update
=> CACHED [3/4] RUN apt-get install -y iputils-ping
```

0.3s
0.0s
0.2s
0.0s

0.1s
0.0s
0.1s
0.1s
0.0s
0.5s
88.9s
14.3s
1.0s
1.0s
0.0s
0.0s

0.1s
0.0s
0.1s
0.0s
0.0s
0.0s
0.0s
0.0s

```
cmd Command Prompt
=> [4/4] RUN apt-get clean      && cd /var/lib/apt/lists && rm -fr *Release* *Sources* *Packages*      && truncate -s 0 /var/log/*log
=> exporting to image
=> => exporting layers
=> => writing image sha256:6e1a46e4f327a8c8f3422d3cc4349327e3e7f7f7cca446a21886c6fa1ab56e6b
=> => naming to docker.io/delner/ping
```

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

```
C:\Users\Abdul-Aziz Tahil>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
delner/ping    latest    6e1a46e4f327   24 seconds ago 170MB
<none>         <none>    070e098a9db0   2 minutes ago 170MB
ubuntu         16.04     9ff95a467e45   3 weeks ago   135MB

C:\Users\Abdul-Aziz Tahil>docker build -t "delner/ping" .
[+] Building 97.0s (6/6) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 283B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/ubuntu:16.04
=> CACHED [1/2] FROM docker.io/library/ubuntu:16.04
=> [2/2] RUN apt-get update      && apt-get install -y iputils-ping      && apt-get clean      && cd /var/lib/apt/lists && rm -fr *Release* *Sources* *Packages*      && truncate -s 0 /var/log/*log
=> exporting to image
=> => exporting layers
=> => writing image sha256:eabcd8772c39641da18134100cfea6caf81e11751104d73cdf83d1673bdd3ae4
=> => naming to docker.io/delner/ping
```

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

```
C:\Users\Abdul-Aziz Tahil>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
delner/ping    latest    eabcd8772c39   7 seconds ago 139MB
<none>         <none>    6e1a46e4f327   3 minutes ago 170MB
<none>         <none>    070e098a9db0   5 minutes ago 170MB
ubuntu         16.04     9ff95a467e45   3 weeks ago   135MB
```

Rebuilding delner/ping causes the previous build to stay with <none> as repository and tag. Manually deleted the two instances.

```
C:\Users\Abdul-Aziz Tahil>docker rmi 6e1
Deleted: sha256:6e1a46e4f327a8c8f3422d3cc4349327e3e7f7f7cca446a21886c6fa1ab56e6b
```

```
C:\Users\Abdul-Aziz Tahil>docker rmi 070
Deleted: sha256:070e098a9db0bcd5e52995a910d6c8a5732bfe23343cb54c1d891f533d42e904
```

```
C:\Users\Abdul-Aziz Tahil>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
delner/ping    latest    eabcd8772c39   52 seconds ago 139MB
ubuntu         16.04     9ff95a467e45   3 weeks ago   135MB
```

C:\Users\Abdul-Aziz Tahil> ---END OF EXERCISE 3---